

ABSTRACTIMAGE PROCESSING APPARATUS

5 In an image processing apparatus 2, images of a subject
object 210 and data defining the positions and
orientations at which the images were recorded are
processed to generate a three-dimensional computer model
of the subject object 210. As part of the processing,
10 image data relating to the subject object 210 is
segmented from other image data in each input image to
define the silhouette of the subject object in each
image, and the silhouettes are processed to generate the
three-dimensional computer model. To improve the
15 accuracy of the segmentation processing, and therefore
the accuracy of each silhouette and the three-dimensional
computer model, processing apparatus 2 defines a volume
of three-dimensional space enclosing the subject object,
projects the volume into at least one of the input
20 images, selects pixels representative of the background
by using the projection of the volume to prevent the
selection of pixels representing the subject object, and
uses the pixels to establish parameters to be used in the
segmentation processing.

(Figure 4)